

Monoamine Oxidase Inhibitor Screening Kit

Cat. No. KITZ-033 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

MONOAMINE OXIDASES are a family of mitochondrial enzymes that catalyze the oxidative deamination of monoamines. Two isoforms of MAO exist, MAO-A and MAO-B, with different inhibitor selectivity and tissue distribution. MAO dysfunction is thought to be responsible for a number of neurological disorders. Unusually high or low levels of MAOs in the body have been associated with depression, schizophrenia, substance abuse, attention deficit disorder, migraines, and irregular sexual maturation. MAO inhibitors are one of the major classes of drug prescribed for the treatment of depression, Parkinson's and Alzheimer's diseases. MAO Inhibitor Screening Assay Kit provides a convenient fluorimetric means to screen for MAO enzyme inhibitors. In the assay, MAO reacts with p-tyramine, a substrate for both MAO-A and MAO-B, resulting in the formation of H₂O₂, which is determined by a fluorimetric method ($\lambda_{em}/\lambda_{ex}$ = 585/530 nm). The assay is simple, sensitive, stable and high-throughput adaptable.

Size

100 tests

Storage

Store all components at -20°C

Shipping

On Ice

Kit Components

Assay Buffer: 12 mL (pH 7.4)
p-Tyramine: 120 μ L
Pargyline: 50 μ L 20 mM
HRP Enzyme: 120 μ L

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Clorgyline: 50 μ L 20 mM

Dye Reagent: 120 μ L

**Materials Required
but Not Supplied**

Pipetting devices, centrifuge tubes, black flat bottom 96-well plate.

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